

USSN 10/727,702
Atty Docket No. 6711.US.C1
Amendment dated 7/1/04

Amendments to the Claims:

The following listing of claims replaces all prior listings of the claims in this application.

1. (cancelled)

33.-37. (cancelled)

38. (currently amended) A flow sensor device for monitoring a fluid flow through a fluid line to a patient, comprising:

a flow sensor adapted to be disposed in a fluid path of a medicinal fluid flowing through a fluid line, said flow sensor producing a signal indicative of a rate of flow of a medicinal fluid through the fluid path, said flow sensor includes an orifice disposed in the fluid path, said orifice having a cross-sectional size that is substantially less than that of the fluid path, both proximal and distal to the orifice, and a pressure-sensing module configured to sense a pressure drop across the orifice, said ~~pressure sensor~~pressure-sensing module producing the signal in response thereto;

wherein the pressure sensing module further comprises a distal pressure sensor and a proximal pressure sensor, said distal pressure sensor monitoring a distal pressure of the medicinal fluid, downstream of the orifice, and said proximal pressure sensor monitoring a proximal pressure of the medicinal fluid, upstream of the orifice, a difference between the distal pressure and the proximal pressure determining the signal supplied to a processor, which is indicative of the rate of flow of medicinal fluid through the fluid line.

39. (cancelled)

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40. (currently amended) The flow ~~control~~sensor device of claim 38 wherein the flow sensor is disposable and is coupled into the fluid path.

41. (cancelled)

42. (currently amended) The flow sensor device of claim 38 further comprising a bypass channel within the fluid line, generally in parallel with the orifice, said bypass channel being selectively opened to enable the fluid to substantially bypass the orifice when a substantially greater rate of flow of the fluid than the desired rate is required through the fluid line.

43.-45. (cancelled)

46. (new) The flow sensor device of claim 42 wherein the flow sensor is disposed in a Y fitting in the fluid line and the bypass channel is within the Y fitting.